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The 7th Natural Radiation Environment Symposium : Report on Topics Related to Radon

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The NREVII Symposium

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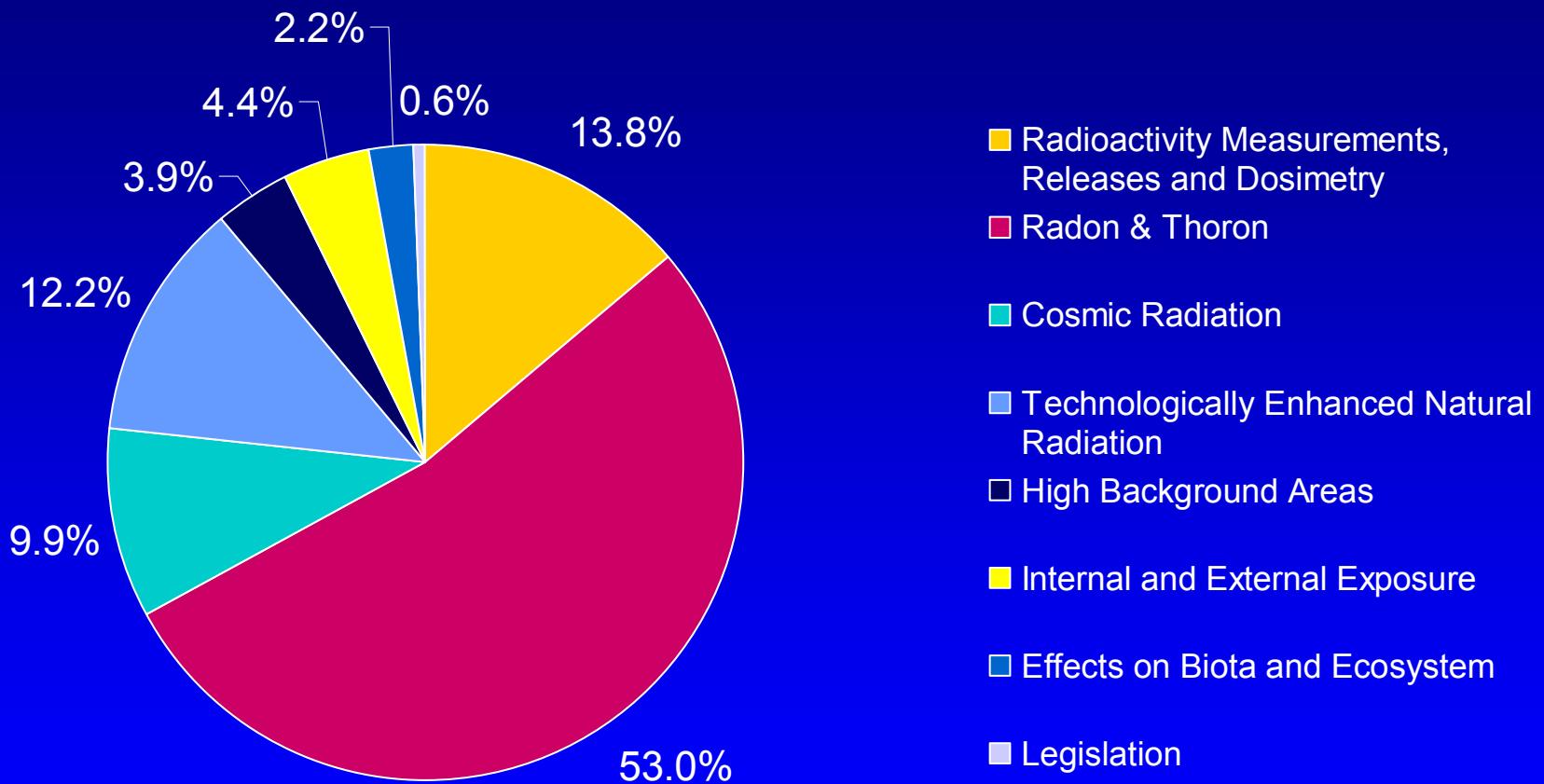
- Organized jointly by the *National Technical University of Athens*, *University College Dublin*, & *University of Salzburg* in Rhodos, Greece, 20-24 May 2002.
- Attended by 263 participants from 41 countries, presenting more than 200 contributions
- 181 manuscripts are currently under review for publication in the Symposium Proceedings.





Topic Statistics

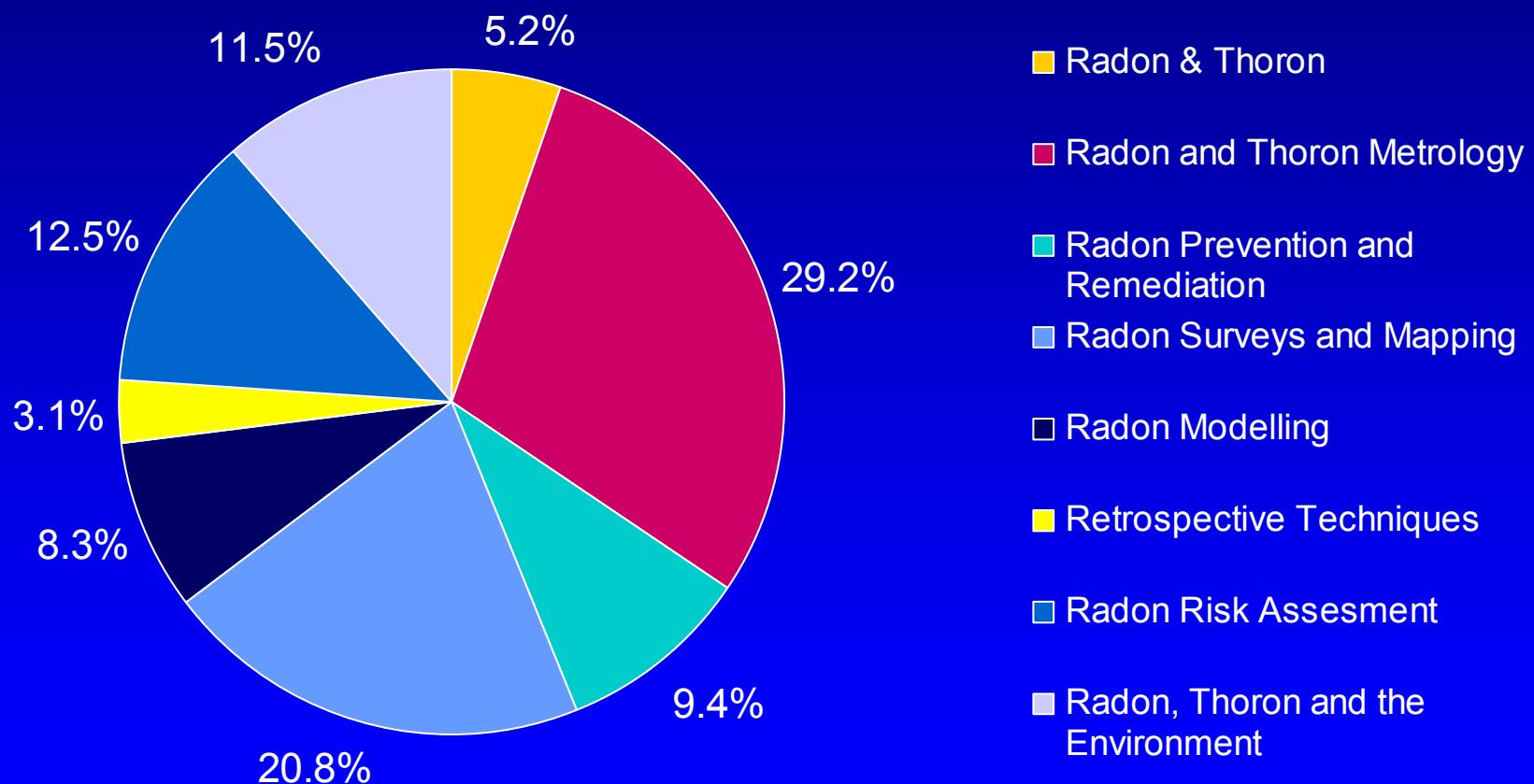
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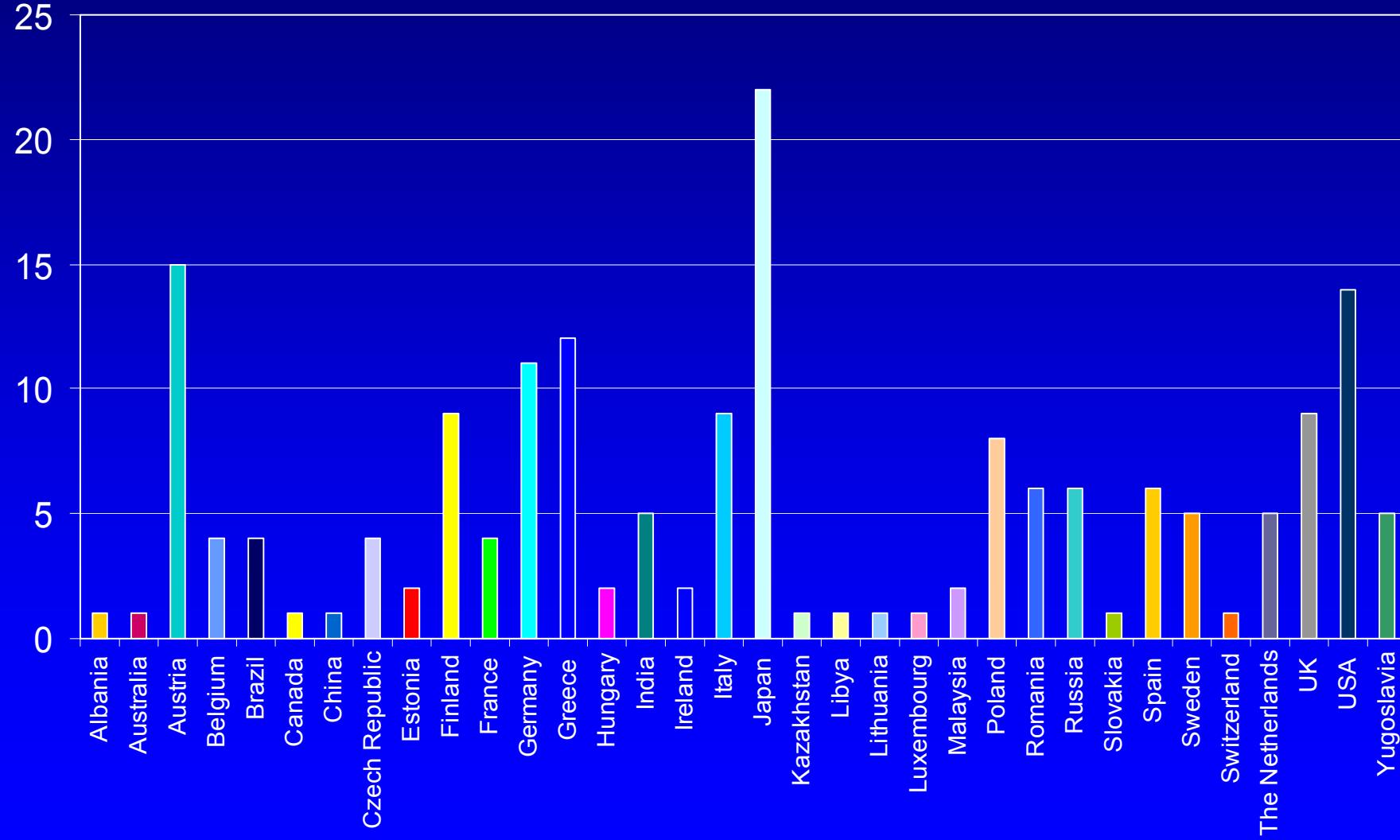
Topic Statistics - Radon





Country Statistics

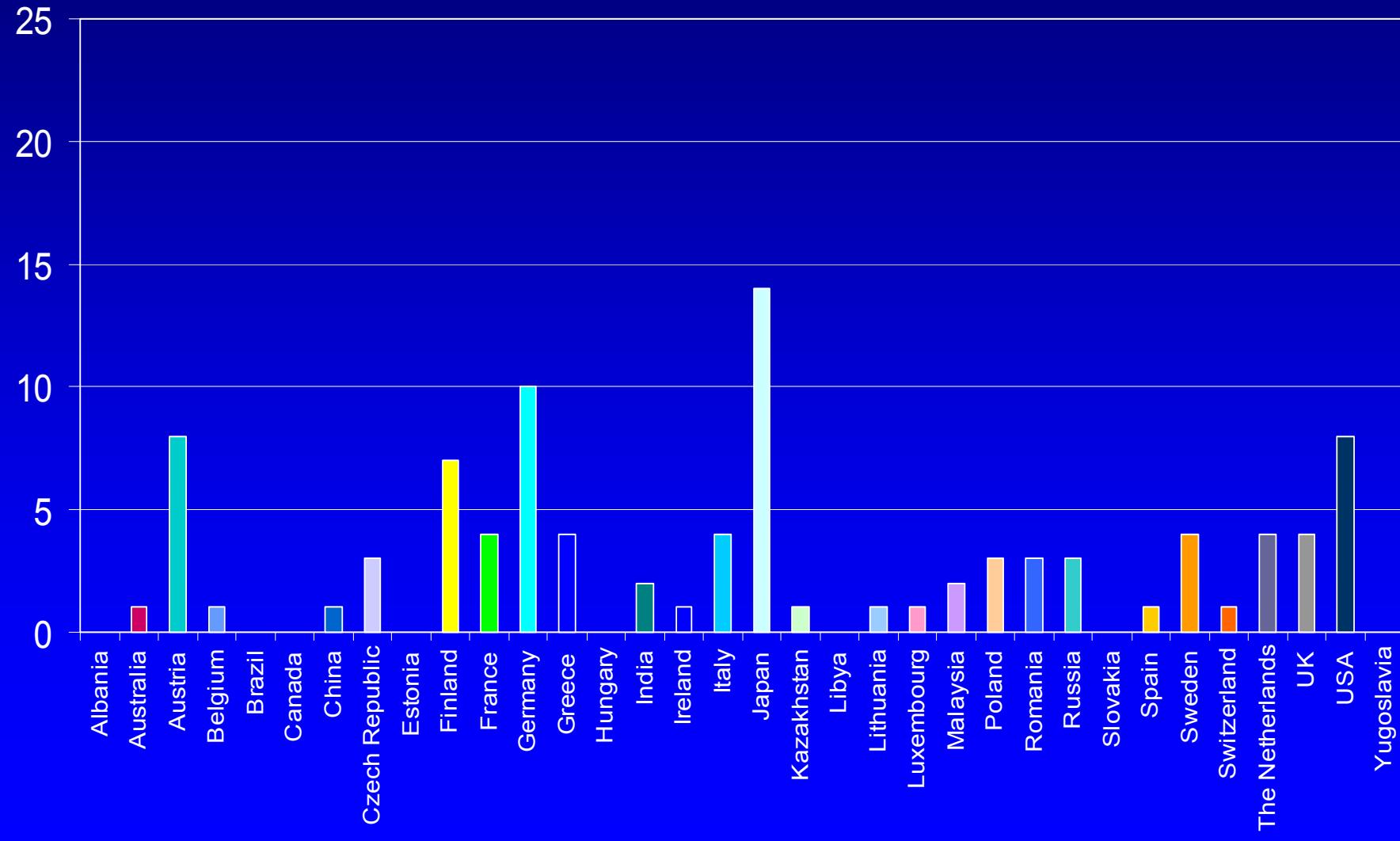
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Country Statistics - Radon

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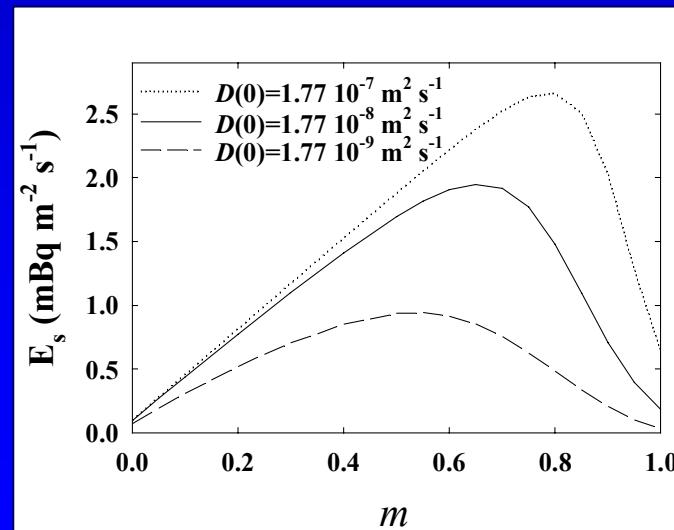
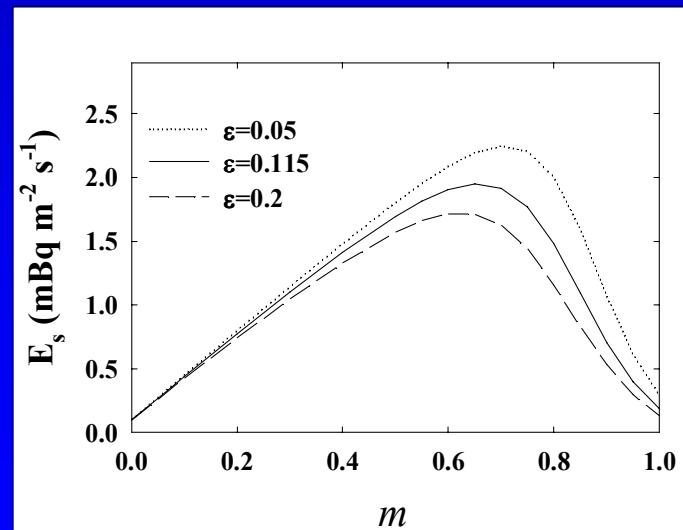




Radon and Thoron

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E.R van der Graaf and R.J. de Meijer :
*Non-destructive evaluation of concrete condition
using radon exhalation monitoring: a feasibility
study*





Radon & Thoron Metrology

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L.Roelofs, R. Wiegers, K. Puch, G. Keller :
*EU Concerted Action for a Survey on Radon
Exhalation Rate Measurements For Building
Materials And Soils*

► Findings :

- Lack of standardization – Incompatibility of results.
- Lack of “well established” method.
- Importance of sample preparation.
- Need for intercomparison.

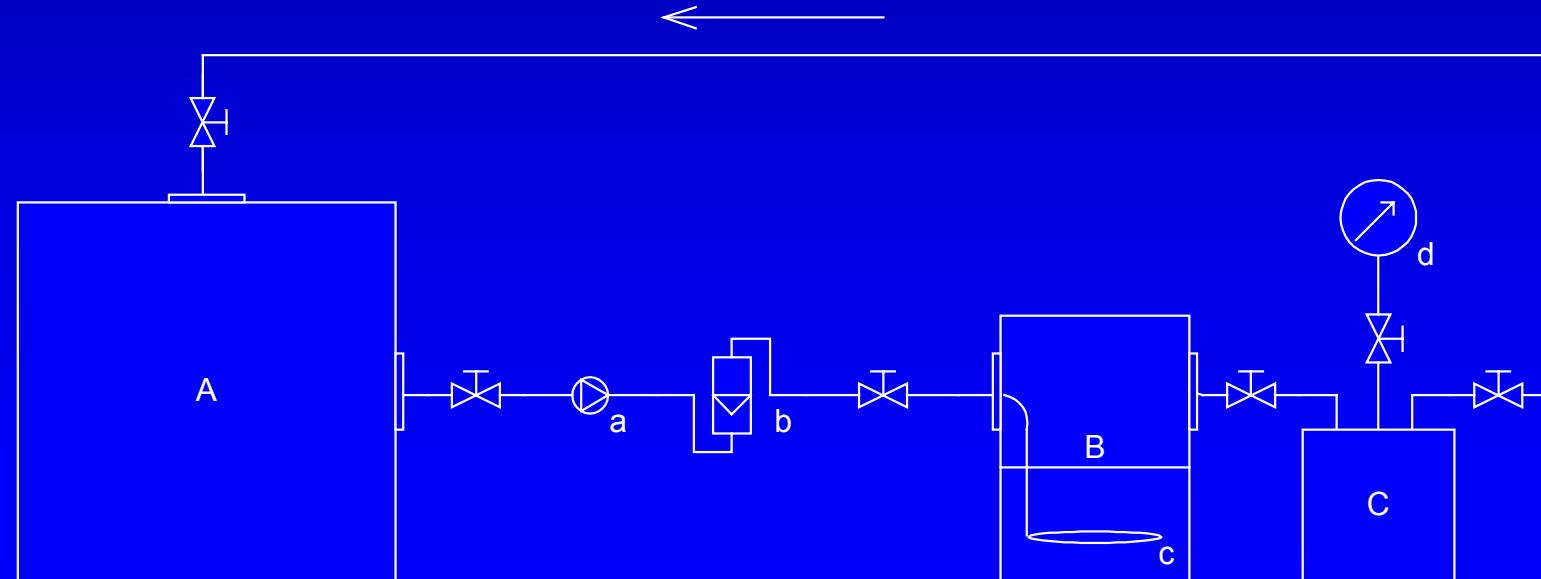


Radon & Thoron Metrology

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D.J. Karangelos, N. P. Petropoulos, E.P. Hinis and
S.E. Simopoulos:

Radon-in-Water Secondary Standard Preparation



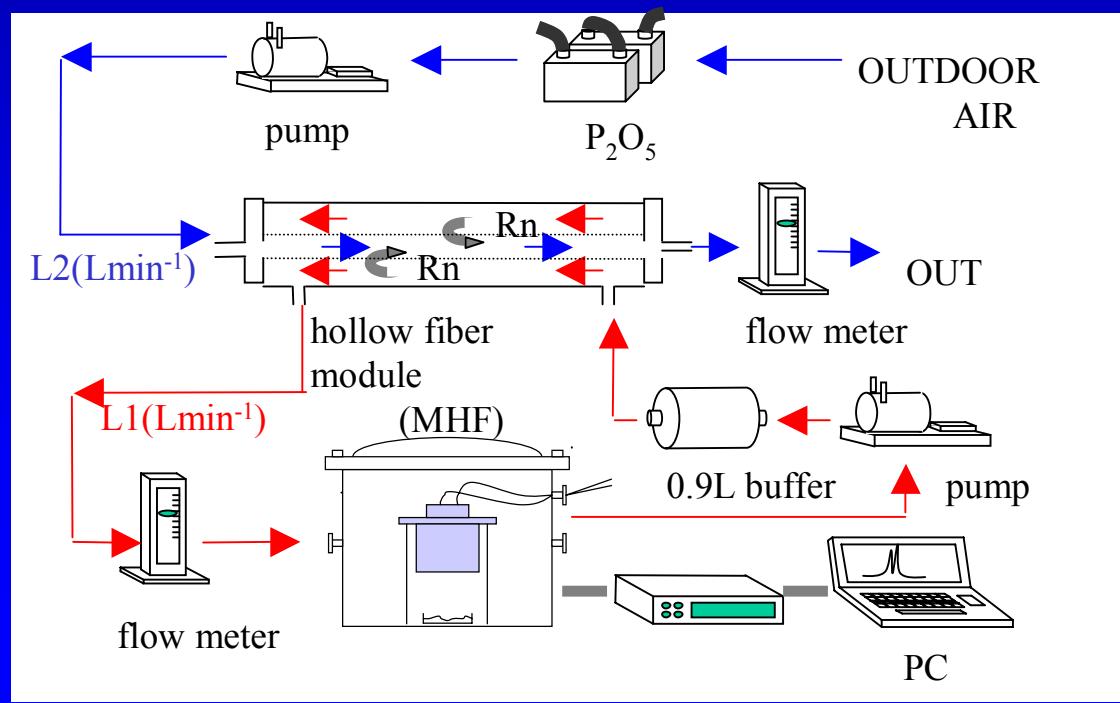


Radon Prevention and Remediation

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T. Iida and T. Kato :

A new method for supplying low radon air by using a hollow fiber module





Radon Surveys and Mapping

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N. H. Harley, P. Chittaporn, M. Heikkinen, R. Merrill, R. Medora :

Outdoor Radon and Thoron in the U.S., Canada, Finland and Thailand

- Applied a track detector developed to simultaneously measure radon and thoron.
- Thoron was often found to be a significant fraction.
- The authors believe thoron might be a source of bias in measurements that do not differentiate between the two isotopes.

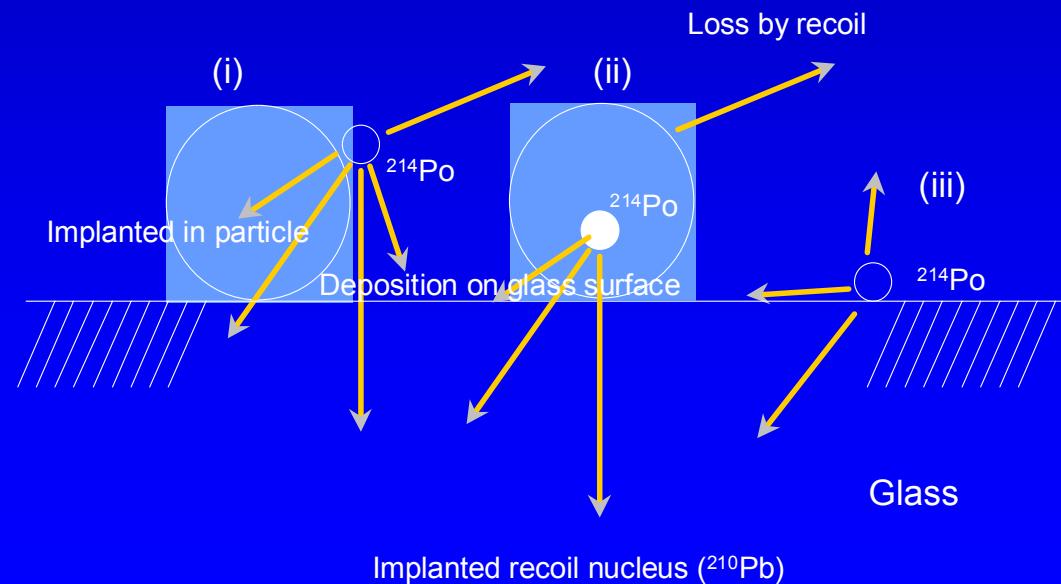


Retrospective Techniques

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B. Roos and C. Samuelsson:

The Behaviour of Rn-222 Decay Products at the Air-Glass Interface and its Implication for Retrospective Radon Exposure Estimates





Radon Risk Assessment

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D.J. Crawford-Brown and W. Hofmann:

Stochastic state-vector model of radiation carcinogenesis applied to radon-induced lung cancer risk

- Stochastic model describing the progression of lung cells through several steps until the development of cancer.
- Good agreement with in vitro data.
- Predicts non-linear dose-response relationship.



Radon, Thoron and the Environment

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D. Bleile and J. Wiegand:

Checking the “10 Point System” for an Evaluation of the Soil Radon Potential

